

ABSTRACT OF THE DISCLOSURE

Phosphor is attached to a window portion of a housing vessel in a light-emitting diode . Blue excitation light emitted from blue light-emitting diode chip is irradiated on the phosphor, and part of excitation light is absorbed by the phosphor, which converts its wavelength and produces a yellow fluorescence to be emitted outward from light-emitting diode. In addition, part of the excitation light also passes through phosphor and becomes transmitted excitation light, which is then emitted outward from light-emitting diode. Yellow fluorescence and blue transmitted excitation light blend to become white light.